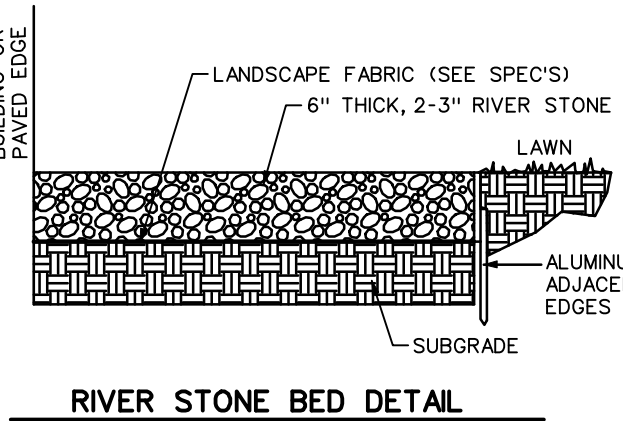


Tree Protection Specifications

1. Pre-construction pruning. Some trees may require lower-branch pruning to allow for the operation of construction equipment. It may be necessary to prune to a height of fifteen (15) ft. or more to allow for clearance of construction vehicles. Trained personnel should do a pre-construction pruning. Allowance performed by pruning crews should be under the supervision of a certified arborist.
2. Construction personnel notification. All contractor employees, including supervisory personnel and subcontractors and their personnel should be made aware that the existing trees to be retained are valuable and need to be protected.
3. Tree protection zone. During construction trees and shrubs shall be protected by four (4) foot high plastic web construction fencing, snow fencing or equivalent fencing staked every ten (10) feet to ensure that there is not encroachment within the area of their drip line by changing grade, trenching, stockpiling of building materials or topsoil or the composition of the soil and roots by any motor vehicles, unless the following regulations are met:
- A. The root area within the drip line of any tree or group of trees may be encroached upon to a maximum of 1/4 of the total root area.
- B. Existing trees whose root area (drip line) has been encroached by more than 1/4 of the total area will not be considered to be preserved and must be replaced.
- C. At the direction of the Township Engineer or Township Landscape Architect, existing trees which have not been adequately protected may be required to be removed and replaced.
4. Tree watering. Provisions should be made to water designated trees during periods of droughts. Periods of drought are defined as a time when there is less than one inch of rainfall during any 30-day period. Trees should be watered at a rate of 50 gallons per inch diameter. Application should be made so that the water slowly soaks into the ground and does not run off.
5. Post-construction pruning. Some trees may be inadvertently damaged during construction activities. All post-construction pruning should be performed under the supervision of a certified arborist.

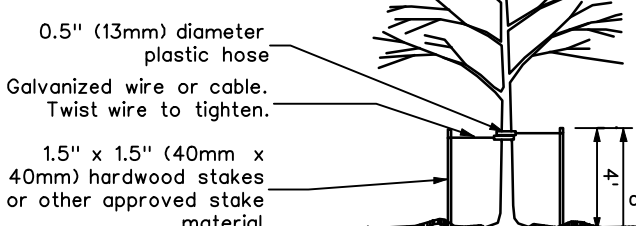
TREE PROTECTION DETAIL
NOT TO SCALE



Wire of cable sizes shall be as follows:

- 1/4" Trees up to 2.5" (65mm) caliper - 14 gauge
- 1/4" Trees 2.5" (65mm) to 3" (76mm) caliper - 12 gauge
- 1/4" Existing Arborvitae - 12 gauge

Tighter wire of cable only enough to keep from slipping. Allow for some trunk movement. Plastic hose shall be enough to accommodate 1.5" (38mm) of growth and buffer all branches from the wire. Tuck any loose ends of the wire or cable into the wire wrap so that no sharp wire ends are exposed.



1. All trees are to be staked with three (3) stakes placed equidistantly around the tree.
2. All stakes shall be driven outside the edges of the root ball.
3. Assume that the bearing surface of the protective covering of the wire or cable against the tree trunk is a minimum of 0.5" (12mm).
4. Stakes shall be removed no later than one (1) year after planting prior to the end of the guarantee.

TREE STAKING DETAIL
NOT TO SCALE

LANDSCAPE NOTES

1. The execution of this plan includes the furnishing of plant materials as specified, accurate layout in the field, sufficient nutrient additives, planting, pruning, staking, watering, labor, clean-up, and all other necessary services to execute the project properly and in full accordance with the specifications and details.
2. All plant materials to be nursery grown and free from insects and disease. All plant stock shall have been grown for at least two (2) years in the same hardiness zone as the project site.
3. Installation shall be in accordance with the American Association of Nurserymen standards. Plant sizes shall be a fair overage between the size range specified.
4. No substitutions are acceptable unless written consent is obtained from the Township landscape architect. Requests must be submitted by the landscape architect who prepared this plan.
5. The landscape contractor shall guarantee all plant material for a period of eighteen (18) months from the date of substantial completion and acceptance of all public improvements by the Township. The developer shall contact the Township in writing to request a final inspection for acceptance at the end of the 18-month guarantee period.
6. Mulch to be shredded oak bark (or approved equal) and spread to a depth of two (2) inches.
7. A pre-emergent herbicide shall be applied to all planting beds according to manufacturer's recommendation prior to placement of mulch. A second application as required shall be included as part of this work.
8. The landscape contractor is responsible for watering plant material until job is turned over to owner.
9. Soil shall be applied to all areas where finished grade is 15' or greater.
10. Permanent groundcover shall be planted in all areas where finished grade is 3:1 or greater.
11. The landscape contractor shall guarantee the relocated Arborvitae trees for a period of twenty-four (24) months from the date of substantial completion and acceptance of all public improvements by the Township. Should any of these trees not survive the transplanting, they shall be replaced at a rate of two ornamental or evergreen trees. The developer shall contact the Township in writing to request a final inspection for acceptance at the end of the 24-month guarantee period.
12. Shade trees shall have a clear trunk to 7'0" above the finished grade.
13. Shrubs along head in parking area shall be located no closer than four (4) feet from the curb.
14. If it is necessary to stockpile existing arborvitae, contractor shall take all necessary steps to preserve existing trees while removed from ground.
15. Contractor shall contact Township Landscape Architect for site review prior to earth moving.

General Notes

1. Benchmark: Storm Manhole Rim East of Bldg 138, E.L. 606.53
2. Contractor shall verify all existing utility locations on-site prior to start of construction.

EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

SHRUB PLANTING DETAIL
B&B TREES IN ALL SOIL TYPES

NOT TO SCALE

DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

Legend

- Existing Building
- Existing Curb
- Proposed Curb
- Existing Edge of Pavement
- Existing Index Contour Line
- Existing Contour Line
- Existing Water Line
- Proposed Water Line with Valve
- Existing Sanitary Sewer
- Proposed Sanitary Sewer
- Existing Storm Sewer
- Proposed Storm Sewer
- Existing Electric
- Proposed Electric
- Existing Telecom
- Proposed Telecom
- Existing Steam
- Proposed Steam and Condensate
- Existing Edge of Vegetation

- Existing Tree
- Existing Fire Hydrant
- Existing Utility Pole
- Existing Lighting
- Proposed Tree Protection Fencing
- Proposed Building
- Proposed Asphalt
- Proposed Sidewalk
- Proposed Storm Sewer
- Proposed Storm Basin Structure
- Proposed Lighting
- Proposed Contour Line
- Proposed Index Contour Line
- Proposed Deciduous Tree
- Proposed Evergreen Tree
- Proposed Shrubs/Perennials/Grasses

Site Data:

Coin Township
Chester County, PA
Zoned: R2 Residential District
Owner/Applicant:
VA Medical Center
1400 Blackhorse Hill Road
Coatesville, PA 19320

PLANT SCHEDULE

Key	No.	Botanical Name	Common Name	Height	Spread	Caliper	Root
DECIDUOUS TREES							
UP	1	Ulmus parviflora 'Alicia'	Alice Chinese Elm	12'-14'	-	2.5-3"	B # B
CK	1	Cornus kousa 'Heart Throb'	Kousa Dogwood	10'-12'	-	2-2.5"	B # B
QR	1	Quercus rubra	Northern Red Oak	12'-14'	-	2.5-3"	B # B
NS	2	Nyssa sylvatica 'Wildfire'	Wildfire Black Gum	12'-14'	-	2.5-3"	B # B
CC	2	Chonanthus virginicus	White Fringe Tree	7'-8'	5'-6'	-	B # B
CF	1	Cercis canadensis 'Forest Pansy'	Forest Pansy Red Bud	8'-9'	5'-6'	-	B # B
EVERGREEN TREES							
PF	1	Picea pungens glauca	Colorado Blue Spruce	7'-8'	-	-	B # B
CD	1	Cedrus deodara	Himalayan Cedar	7'-8'	-	-	B # B
PA	1	Picea abies	Norway Spruce	7'-8'	-	-	B # B
IN	1	Ilex 'Nellie R. Stevens'	Nellie Stevens Holly	7'-8'	-	-	B # B
SHRUBS							
FG	8	Fothergilla gardenii 'Mt. Airy'	Dwarf Fothergilla	18-24" Ht.	18"	-	# 3 can
SJ	10	Spiraea japonica 'Firelight'	Firelight Spiraea	15-18" Ht.	15"	-	# 3 can
IVM	23	Itea virginica 'Merlot'	Virginia Sweetgum	18-24" Ht.	18"	-	# 3 can
IG	5	Ilex glabra	Common Holly	18-24" Ht.	18"	-	# 3 can
IV	1	Ilex verticillata 'Maryland Beauty'	Winterberry Holly	24-30" Ht.	24"	-	# 5 can
VN	8	Viburnum nudum 'Winterthur'	Winterthur Viburnum	24-30" Ht.	24"	-	# 5 can
AA	10	Aronia arbutifolia 'Brilliantissima'	Brilliant Red Chokeberry	24-30" Ht.	24"	-	# 5 can
GROUNDCOVER, GRASSES AND PERENNIALS							
HC	5	Heuchera 'Firefly'	Coral Bells	8-12" Ht.	12-15"	-	# 2 can
PB	18	Perovnia 'Blue Spire'	Russian Sage	15-18" Ht.	15"	-	# 2 can
LM	1	Limonium muscari 'Big Blue'	Big Blue Linum	6-8" Ht.	-	-	# 1 can
HS	31	Hemerocallis Stella D'Oro	Stella D'Oro Daylily	8-12" Ht.	-	-	# 1 can
PV	16	Panicum virgatum 'Shenandoah'	Shenandoah Switchgrass	8-12" Ht.	-	-	# 1 can
CV	10	Coreopsis verticillata 'Moonbeam'	Moonbeam Tickseed	8-12" Ht.	-	-	# 1 can

25% Construction Documents	02/23/10
50% Construction Documents	04/23/10
Revised per Chester Cty. SCD 1st Review	06/25/10
100% Construction Documents	06/28/10
100% Bid Documents	08/05/10
Revisions	Date

ASSOCIATES DIRECTOR PATIENT CARE	INFECTION CONTROL	SUPERVISOR M&O	PROJECT MANAGER
TEAMSTER	CONTRACTING OFFICER	GEN UTILITIES	SAFETY OFFICE
POLICE	PATIENT SAFETY	GEN PROPERTIES	SUPERVISOR PROJECT SECTION

ARCHITECT / ENGINEERS :

Francis Cauffman

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Fax: (215) 568-2630

Mechanical, Electrical, Fire Protection, and Planning Engineer

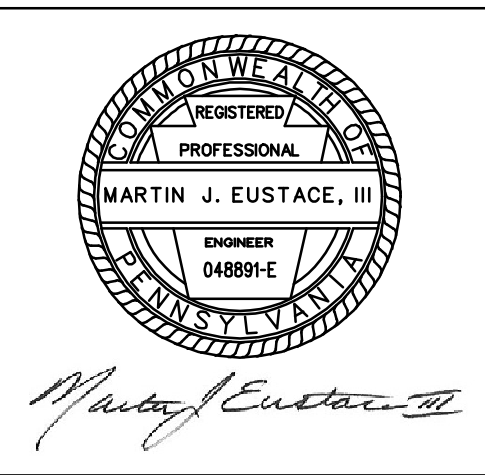
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Drawing Title CIVIL LANDSCAPING PLAN	Project Title CONSTRUCT HOSPICE COATESVILLE	Date 02-23-2010
Approved: Chief Engineering Service	Drawn	Project No. 542-CSI-201
Approved: Medical Center Director	Checked	Drawing No. CS-1.04
	Location COATESVILLE, PENNSYLVANIA	Dwg. Of